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FORM 10-144 U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY DOCKET NO.
TSRI 463.4

SERIAL NO.
09/423,035

APPLICANT
Joyce, et al.

FILING DATE
April 29, 1998

GROUP
1635

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

U.S. PATENT DOCUMENTS

EXAM. INITIALS	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
TV	5,861,288	1/19/99	Usman, et al.			

FOREIGN PATENT DOCUMENTS

EXAM. INITIALS	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages)

TV	1	Breaker, DNA enzymes, 1997, <i>Nature Biotech.</i> , 15:427-431.
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EXAMINER

DATE CONSIDERED

2/22/05

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5/7/01

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY DOCKET NO. TSRI 463.2	SERIAL NO. 08/249,367 09/423,035
	APPLICANT Joyce, et al.	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	FILING DATE August 25, 1997 4/29/98	

U.S. PATENT DOCUMENTS

EXAM. INITIALS	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
TV	5,879,938	3/9/99	Usman, et al.			
TV	6,008,343	12/28/99	Jennings, et al.			

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EXAM. INITIALS	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO
TV	WO95/11304	4/27/95	PCT			

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TV	1.	Beaudry and Joyce, "Directed Evolution of an RNA Enzyme", <u>Science</u> , 257:635-641 (1992)
	2.	Breaker, et al., "Continuous in Vitro Evolution of Bacteriophage RNA Polymerase Promoters", <u>Biochemistry</u> , 33:11980-11986 (1994)
	3.	Breaker and Joyce, "Inventing and Improving Ribozyme Function: Rational Design Versus Iterative Selection Methods", <u>Trends Biotech.</u> , 12:268-275 (1994)
	4.	Breaker and Joyce, "A DNA Enzyme with Mg ²⁺ -Dependent RNA Phosphoesterase Activity", <u>Chemistry & Biology</u> , 2:655-660 (1995)
	5.	Burgstaller and Famulok, "Synthetic Ribozymes and the First Deoxyribozyme", <u>Angew. Chem. Int. Ed. Engl.</u> , 34:1189-1192 (1995)
	6.	Cadwell and Joyce, "Randomization of Genes by PCR Mutagenesis", <u>PCR Methods and Applications</u> , 2:28-33 (1992)
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	8.	Chartrand, et al., "A Oligodeoxyribonucleotide with Catalytic Properties", <u>Proc. RNA Society</u> , (1994) Abstract
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	10.	Joyce, "Amplification, Mutation and Selection of Catalytic RNA", <u>Gene</u> , 82:83-87 (1989)
	11.	Joyce, "In Vitro Evolution of Nucleic Acids", <u>Current Opinion in Structural Biology</u> , 4:331-336 (1994)
	12.	Lehman and Joyce, "Evolution In Vitro of an RNA Enzyme with Altered Metal Dependence", <u>Nature</u> , 361:182-185 (1993)
	13.	Pan and Uhlenbeck, "In Vitro Selection of RNAs that Undergo Autolytic Cleavage with Pb ²⁺ ", <u>Biochemistry</u> , 31:3887-3895 (1992)
	14.	Pan and Uhlenbeck, "A Small Metalloribozyme with a Two-Step Mechanism", <u>Nature</u> , 358:560-563 (1992)
	15.	Paquette, et al., "The Conformation of Single-Stranded Nucleic Acids tDNA Versus tRNA", <u>Eur. J. Biochem.</u> , 189:259-265 (1990)

EXAMINER <i>Tracey W. Vilemure</i>	DATE CONSIDERED 2/22/05
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4/29/98

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EXAM. INITIALS		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO

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EXAMINER

2/22/05

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

U.S. PATENT DOCUMENTS

EXAM. INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
TV		6,159,714	12/12/00	Usman, et al.			

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EXAM. INITIALS		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages)

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